Dawson Colleg	e Calculus II	(SCIENCE).	201_NVR	-05-\$10-	Winter	2016
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Quiz 3

This quiz is graded out of 10 marks. No books, calculators, notes or cell phones are allowed. You must show all your work, the correct answer is worth 1 mark the remaining marks are given for the work. If you need more space for your answer use the back of the page.

Question 1. (5 marks) §5.1 #3b Estimate the area under the graph of $f(x) = \cos x$ from x = 0 to $x = \frac{\pi}{2}$ using four approximating rectangles and left endpoints. Sketch the graph and the rectangles. Is your estimate and underestimate or an overestimate?

Question 2. (5 marks) §5.2 #42 Find $\int_0^5 f(x) \ dx$ if

$$f(x) = \begin{cases} 3 & \text{for } x < 3\\ x & \text{for } x \ge 3 \end{cases}$$